

Synonym

CD27,TNFRSF7,S152,T14,Tp55

Source

Human CD27 Protein, Mouse IgG2a Fc Tag(CD7-H5257) is expressed from human 293 cells (HEK293). It contains AA Thr 21 - Ile 192 (Accession # [P26842-1](#)).
Predicted N-terminus: Thr 21

Molecular Characterization

CD27(Thr 21 - Ile 192) P26842-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.
The protein has a calculated MW of 46.2 kDa. The protein migrates as 55-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.
>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH7.5 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

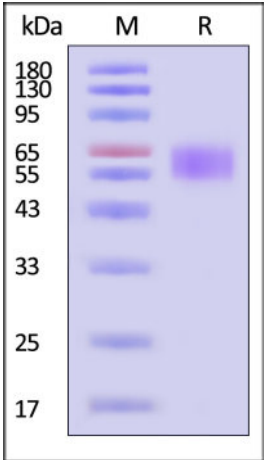
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

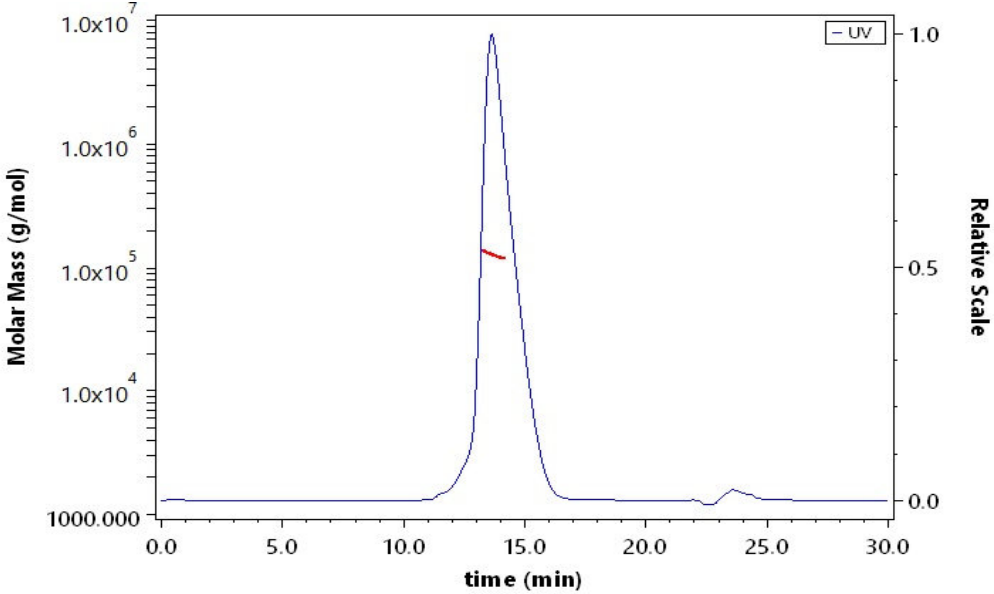
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CD27 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

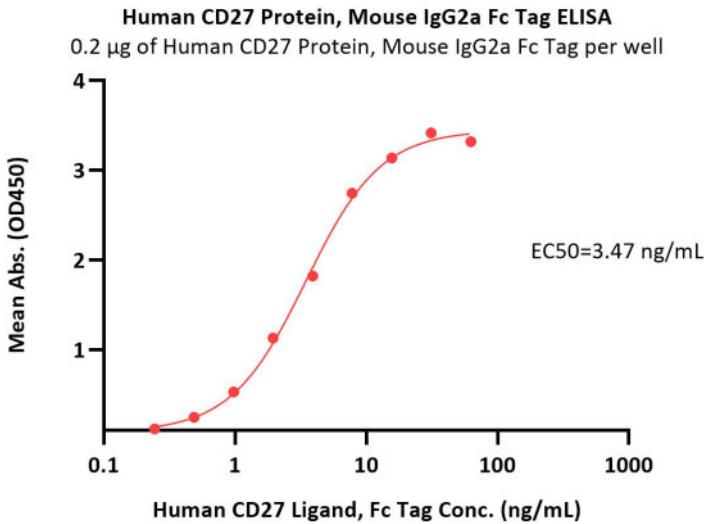
SEC-MALS



The purity of Human CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) is more than 95% and the molecular weight of this protein is around 110-140 kDa verified by SEC-MALS.
[Report](#)

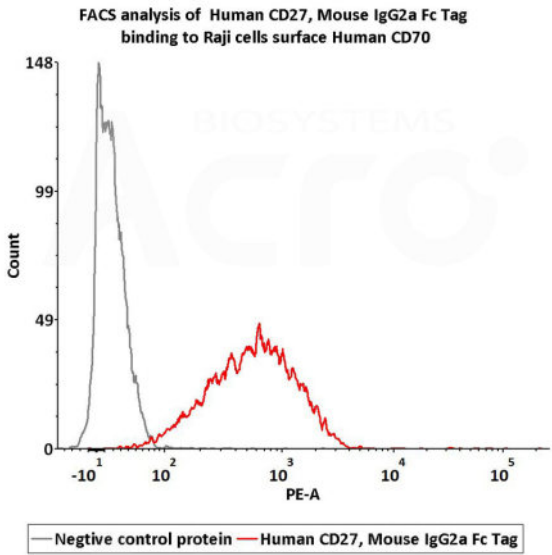
Bioactivity-ELISA





Immobilized Human CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) at 2 µg/mL (100 µL/well) can bind Human CD27 Ligand, Fc Tag (Cat. No. TN7-H526x) with a linear range of 0.2-4 ng/mL (QC tested).

Bioactivity-FACS



Flow Cytometry assay shows that Human CD27 Protein, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) can bind to Raji cells Surface Human CD70. The concentration of CD27 used is 10 µg/mL (Routinely tested).

Background

CD Antigen CD27 is also known as Tumor necrosis factor receptor superfamily member 7 (TNFRSF7), which belongs to TNF-receptor superfamily. CD27 / TNFRSF7 is found in most T-lymphocytes. CD27 / TNFRSF7 is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-κB and MAPK8/JNK. CD27 has been shown to interact with SIVA1, TRAF2 and TRAF3.

